DF9921NH_HA1ULL_ENG

DVD PLAYER

OWNER'S MANUAL

MODEL : LDA-511

Before connecting, operating or adjusting this product, please read this instruction booklet carefully and completely.

For service/
support Call:
Toll Free Number

1-800-243-0000

© Copyright 2005, LG Electronics U.S.A., Inc.

CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN

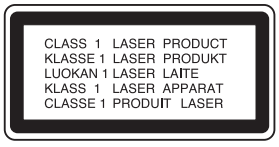
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK) NO USER-SERVICEABLE PARTS INSIDE REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

WARNING: TO PREVENT FIRE OR ELECTRIC SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

WARNING: Do not install this equipment in a confined space such as a bookcase or similar unit.



CAUTION:
This product employs a Laser System.
To ensure proper use of this product, please read this owner's manual carefully and retain it for future reference. Should the unit require maintenance, contact an authorized service center.
Performing controls, adjustments, or carrying out procedures other than those specified herein may result in hazardous radiation exposure.
To prevent direct exposure to laser beam, do not try to open the enclosure. Visible laser radiation when open. DO NOT STARE INTO BEAM.

CAUTION: The apparatus should not be exposed to water (dripping or splashing) and no objects filled with liquids, such as vases, should be placed on the apparatus.

CAUTION: VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED.

FCC WARNING: This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

REGULATORY INFORMATION: FCC Part 15
This epuipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the product is operated in a residential installation. This product generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this product does cause harmful interference to radio or television reception, which can be determined by turning the product off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the product and receiver.
- Connect the product into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC COMPLIANCE: The responsible party for this product's compliance is:
LG Electronics U.S.A., Inc., 1000 Sylvan Avenue, Englewood Cliffs, NJ 07632 Phone: 1-201-816-2000

CAUTION concerning the Power Cord

Most appliances recommend they be placed upon a dedicated circuit;
That is, a single outlet circuit which powers only that appliance and has no additional outlets or branch circuits. Check the specification page of this owner's manual to be certain.

Do not overload wall outlets. Overloaded wall outlets, loose or damaged wall outlets, extension cords, frayed power cords, or damaged or cracked wire insulation are dangerous. Any of these conditions could result in electric shock or fire. Periodically examine the cord of your appliance, and if its appearance indicates damage or deterioration, unplug it, discontinue use of the appliance, and have the cord replaced with an exact replacement part by an authorized servicer.

Protect the power cord from physical or mechanical abuse, such as being twisted, kinked, pinched, closed in a door, or walked upon. Pay particular attention to plugs, wall outlets, and the point where the cord exits the appliance.

SERIAL NUMBER: The serial number is found on the back of this unit. This number is for this unit only. You should record the serial number in the space provided and retain this guide as a permanent record of your purchase.
Model No. LDA-511
Serial No. _____

Contents

Introduction 4

Symbol used in this Manual 4
About the ⃠ Symbol Display 4
Notes on Discs 4
Handling Discs 4
Storing Discs 4
Cleaning Discs 4
Types of Playable Discs 5
Regional code 5
Disc-related terms 6
Front Panel 7
Rear Panel 8
Remote Control 9
Remote Control Operation 9
Remote Control Battery Installation 9

Installation and Setup 10

Setting up the Player 10
DVD Player Connections 10
Video and Audio Connections to Your TV . .10
HDMI connection 11
Audio Connection to Optional Equipment . .12
On-Screen Display 13
Playback Status/Restrictions 13
Initial Settings 14
General Operation 14
LANGUAGE 14
• Menu Language 14
• Disc Audio / Subtitle / Menu 14
DISPLAY 14
• TV Aspect 15
• Display Mode 15
AUDIO 15
• Dolby Digital / DTS / MPEG 15
• Sample Freq. (Frequency) 15
• Dynamic Range Control (DRC) 15
• Vocal 15
OTHERS 16
• PBC 16
• Auto Play 16
• B.L.E. (Black Level Expansion) 16
• DivX(R) VOD 16
LOCK (Parental Control) 17
• Rating 17
• Password (Security Code) 17
• Area Code 17

Operation 18

Playing a DVD or Video CD 18
Playback Setup 18
General Features 18
Moving to another TITLE/GROUP 18
Moving to another CHAPTER/TRACK 18
Search 18
Changing the Audio Channel 18
Still Picture and Frame-by-Frame Playback . . .19
Slow Motion 19
Random 19
Repeat A-B 19
Repeat 19
3D Surround 19
Time Search 19
Zoom 20
Marker Search 20
Pause 20
Special DVD Features 20
Checking the contents of DVD discs: Menus .20
Title Menu 20
Disc Menu 20
Camera Angle 20
Changing the Audio Language 20
Subtitles 20
DVD Audio Discs 21
Moving to another GROUP 21
Viewing another PAGE 21
Playing an Memory Card 22
Playing an Audio CD or MP3/WMA Disc . . .23
Audio CD and MP3 / WMA Disc Features . .24
Pause 24
Moving to another Track 24
Repeat Track/All/Off 24
Search 24
Random 24
Repeat A-B 24
3D Surround 24
Programmed Playback 25
Repeat Programmed Tracks 25
Erasing a Track from Program List 25
Erasing the Complete Program List 25
Viewing a JPEG Disc 26
Slide Show 26
Still Picture 26
Moving to another File 26
Zoom 26
To rotate picture 26
To listen to MP3/WMA music watching picture 26
Maintenance and Service 27
Playing a DivX Movie Disc 28
Additional Features 29
Last Scene Memory 29
Screen Saver 29
Video Mode Setting 29

Reference 30

Controlling Your TV with the Supplied Remote .30
Language Codes 31
Area Codes 31
Troubleshooting 32
Specifications 33

Introduction

To ensure proper use of this product, please read this owner's manual carefully and retain for future reference.

This manual provides information on the operation and maintenance of your DVD player. Should the unit require service, contact an authorized service location.

Symbol Used in this Manual

The lightning flash symbol alerts you to the presence of dangerous voltage within the product enclosure that may constitute a risk of electric shock.

The exclamation point alerts you to the presence of important operating and maintenance / servicing instructions.

Indicates hazards likely to cause harm to the unit itself or other material damage.

Note:
Indicates special notes and operating features.

Tip:
Indicates tips and hints for making the task easier.

A section whose title has one of the following symbols is applicable only to the disc represented by the symbol.

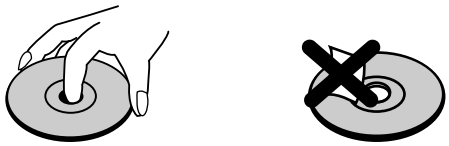
- DVD-V DVD and finalized DVD±R/RW
- DVD-A DVD Audio discs
- VCD Video CDs
- CD Audio CDs
- MP3 MP3 Discs
- WMA WMA Discs
- JPEG JPEG Discs
- DivX DivX Discs
- M/C Memory Card

About the ⃠ Symbol Display

" ⃠ " may appear on your TV display during operation and indicates that the function explained in this owner's manual is not available on that specific DVD video disc.

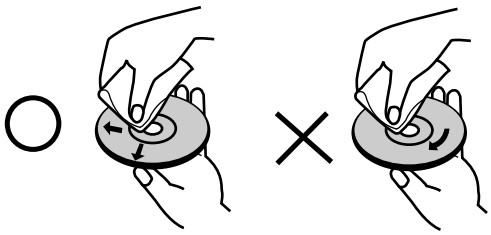
Notes on Discs

Handling Discs
Do not touch the playback side of the disc. Hold the disc by the edges so that fingerprints do not get on the surface. Never stick paper or tape on the disc.



Storing Discs
After playing, store the disc in its case. Do not expose the disc to direct sunlight or sources of heat and never leave it in a parked car exposed to direct sunlight.

Cleaning Discs
Fingerprints and dust on the disc can cause poor picture quality and sound distortion. Before playing, clean the disc with a clean cloth. Wipe the disc from the center out.



Do not use strong solvents such as alcohol, benzine, thinner, commercially available cleaners, or anti-static spray intended for older vinyl records.

Types of Playable Discs

DVD VIDEO	DVD (8 cm / 12 cm disc)
DVD AUDIO	DVD audio discs (8 cm / 12 cm disc)
COMPACT disc DIGITAL VIDEO	Video CD (VCD) (8 cm / 12 cm disc)
COMPACT disc DIGITAL AUDIO	Audio CD (8 cm / 12 cm disc)

In addition, this unit plays Memory Card, DivX file, DVD -R, DVD +R, DVD -RW, DVD +RW, SVCD, and CD-R / CD-RW that contains audio titles, MP3, WMA, and/or JPEG files.

Notes:

- Depending on the conditions of the recording equipment or the CD-R/RW (or DVD -R, DVD +R, DVD -RW, DVD +RW) disc itself, some CD-R/RW (or DVD -R, DVD +R, DVD -RW, DVD +RW) discs cannot be played on the unit.
- Do not attach any seal or label to either side (the labeled side or the recorded side) of a disc.
- Do not use irregularly shaped CDs (e.g., heart-shaped or octagonal) since they may result in malfunctions.

Notes on DVDs and Video CDs

Some playback operations of DVDs and Video CDs may be intentionally programmed by software manufacturers. This unit plays DVDs and Video CDs according to disc content designed by the software manufacturer, therefore some playback features may not be available or other functions may be added.

Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic", and the double-D symbol are trademarks of Dolby Laboratories.

DTS and DTS Digital Out are trademarks of Digital Theater Systems, Inc.

Regional code

This DVD player is designed and manufactured for playback of region "1" encoded DVD software. This unit can play only DVD discs labeled "1" or "ALL".

Notes on Regional Codes

- Most DVD discs have a globe with one or more numbers in it clearly visible on the cover. This number must match your DVD player's regional code or the disc cannot play.
- If you try to play a DVD with a different region code from your player, the message "Check Regional Code" appears on the TV screen.

Notes on Copyrights:

It is forbidden by law to copy, broadcast, show, broadcast via cable, play in public, or rent copyrighted material without permission. This product features the copy protection function developed by Macrovision. Copy protection signals are recorded on some discs. When recording and playing the pictures of these discs picture noise will appear. This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

CONSUMERS SHOULD NOTE THAT NOT ALL HIGH DEFINITION TELEVISION SETS ARE FULLY COMPATIBLE WITH THIS PRODUCT AND MAY CAUSE ARTIFACTS TO BE DISPLAYED IN THE PICTURE. IN CASE OF 525 PROGRESSIVE SCAN PICTURE PROBLEMS, IT IS RECOMMENDED THAT THE USER SWITCH THE CONNECTION TO THE 'STANDARD DEFINITION' OUTPUT. IF THERE ARE QUESTIONS REGARDING OUR TV SET COMPATIBILITY WITH THIS MODEL 525p DVD PLAYER, PLEASE CONTACT OUR CUSTOMER SERVICE CENTER.

Disc-related terms

DVD ±R / DVD ±RW
DVD -R and DVD +R are two different standards for recordable DVD drives and discs. This format allows information to be recorded onto the DVD disc only once. DVD +RW and DVD -RW are two standards for re-writable media, meaning the DVD content can be erased and re-recorded.

VCD (Video CD)
A VCD holds up to 74 minutes (650 MB disc) or 80 minutes (700 MB disc) of MPEG-1 full-motion video along with quality stereo sound.

MPEG
MPEG is an international standard for video and audio compression. MPEG-1 is used in encoding video for VCD and provides for multichannel surround sound coding such as PCM, Dolby Digital, DTS and MPEG audio.

MP3
MP3 is a popular compression format used for digital audio files that yields very high near-CD quality.

WMA
Windows media audio file. A type of coding / decoding developed by Microsoft Corp.

JPEG
Joint Pictures Expert Group. JPEG is a compressed file format that allows you to save images with no limit on the number of colors.

DivX
DivX is the name of a revolutionary new video codec which is based on the new MPEG-4 compression standard for video.You will be able to play DivX movies using this DVD player.

PBC: Playback Control (Video CD only)
Playback control is available for Video CD (VCD) version 2.0 disc formats. PBC allows you to interact with the system via menus, search functions, or other typical computer-like operations. Moreover, still pictures of high resolution can be played if they are included in the disc. Video CDs not equipped with PBC (Version 1.1) operate in the same way as audio CDs.

Title (DVD video discs only)
A title is generally a distinct section of a DVD disc. For example the main feature could be title 1, a documentary describing how the film was made could be title 2, and cast interviews could be title 3. Each title is assigned a reference number enabling you to locate it easily.

Chapter (DVD video discs only)
A chapter is a segment of a title such as a scene in a film or one interview in a series. Each chapter is assigned a chapter number, enabling you to locate the chapter you want. Depending on the disc, chapters may not be recorded.

Group (DVD audio discs only)
The main audio content or accompanying feature content or additional feature content, or music album.Each group is assigned a group reference number enabling you to locate it easily.

Scene (VCD)
On a video CD with PBC (playback control) functions, moving pictures and still pictures are divided into sections called “scenes”. Each scene is displayed in the menu screen and assigned a scene number, enabling you to locate the scene you want. A scene is composed of one or several tracks.

Track
A distinct element of audiovisual information, such as the picture or sound track for a specific language (DVD), or a musical piece on a video or audio CD. Each track is assigned a track number, enabling you to locate the track you want. DVD discs allow one track of video (with multiple angles) and several tracks of audio.

Front Panel

POWER
Switches the player ON and OFF.

PLAY (►)
Starts playback.

STOP (■) Stops playback.

RESOLUTION
You can change the resolution depending on your TV.

3D SOUND
Selects 3DSURROUND during playback.

MEMORY CARD
Accesses the menu for memory card.

OPEN / CLOSE (⏏)
Opens or closes the disc

MEMORY CARD Slot
Insert a memory card. (CF, MD, MMC, SD, MS, MS-Pro or xD).

Disc slot
Insert a disc here.

Display window
Shows the current status of the player.

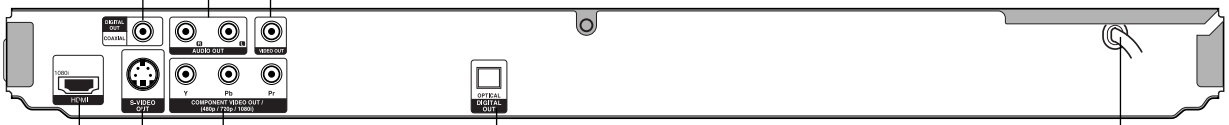
Remote Sensor
Point the DVD Player remote control here.

Rear Panel

COAXIAL (Digital audio out jack)
Connect to digital (coaxial) audio equipment.

AUDIO OUT (Left/Right)
Connect to an amplifier, receiver,
or stereo system.

VIDEO OUT
Connect to a TV with video inputs.



OPTICAL (Digital audio out jack)
Connect to digital (optical) audio equipment.

COMPONENT VIDEO OUT / (480p / 720p / 1080i)
Connect to a TV with Y Pb Pr inputs.

S-VIDEO OUT
Connect to a TV with S-Video inputs.

AC Power Cord
Plug into the power source.

HDMI OUT
HDMI output providing a high quality interface for
digital audio and video.

Remote Control

OPEN / CLOSE
Opens or closes the disc.

POWER
Switches DVD Player ON and OFF.

0-9 number buttons
Selects numbered items in a menu.

CLEAR
Removes a track number on the program list or a mark on the MARKER SEARCH menu.

SCAN (◄◄ / ►►)
Search backward or forward.

PAUSE / STEP (❚❚)
Pauses playback temporarily/ press repeatedly for frame-by-frame playback.

PLAY (►)
Starts playback.

DVD MENU
Accesses menu on a DVD disc.

◄ ► ▲ ▼ (left/right/up/down) •
Selects an item in the menu.

ENTER •
Confirms menu selection.

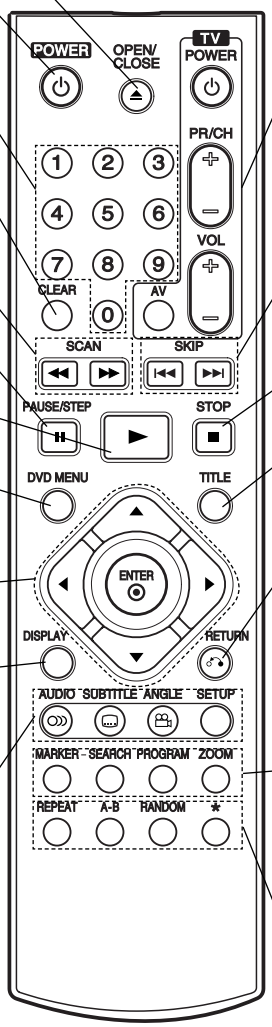
DISPLAY
Accesses On-Screen display.

AUDIO •
Selects an audio language (DVD).

SUBTITLE •
Selects a subtitle language.

ANGLE •
Selects a DVD camera angle if available

SETUP •
Accesses or removes setup menu.



TV Control Buttons

TV POWER:
Turns the TV on or off.

TV PR/CH +/–:
Selects TV's channel.

TV VOL +/–:
Adjusts TV's volume.

AV:
Selects the TV's source.

SKIP (I◄◄ / ►►I)
Go to next chapter or track. Returns to beginning of current chapter or track or go to previous chapter or track.

STOP (■)
Stops playback.

TITLE
Displays title menu, if available.

RETURN
Removes the setup menu, displays the video CD with PBC.

• MARKER
Marks any point during playback.

• SEARCH
Displays MARKER SEARCH menu.

• PROGRAM
Places a track on the program list.

• ZOOM
Enlarges video image.

• REPEAT
Repeat chapter, track, title, group, all.

• A-B
Repeat sequence.

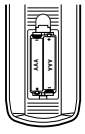
• RANDOM
Plays tracks in random order.

• * This button is not available.

Remote Control Operation
Point the Remote Control at the remote sensor and press the buttons.

⚠ Do not mix old and new batteries and never mix different types of batteries such as standard, alkaline, etc.

Remote Control Battery installation



Detach the battery cover on the rear of the remote control, and insert two batteries (size AAA) with ⊕ and ⊖ aligned correctly.

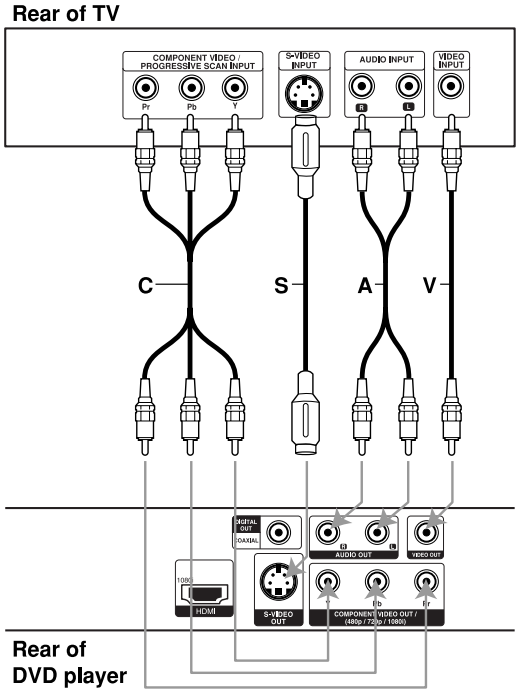
Installation and Setup

Setting up the Player

The picture and sound of a nearby TV, VCR, or radio may be distorted during playback. If this occurs, position the player away from the TV, VCR, or radio, or turn off the unit after removing the disc.

DVD Player Connections

Depending on your TV and other equipment there are various ways you can connect the player. Please refer to the manuals of your TV, stereo system or other devices as necessary for additional connection information.



Video and Audio Connections to Your TV

Make sure the DVD player is connected directly to the TV and not to a VCR, otherwise the DVD image could be distorted by the copy protection system.

Audio: Connect the left and right AUDIO OUT jacks of the DVD Player to the audio left and right IN jacks on the TV (A) using the audio cables. Do not connect the DVD Player's AUDIO OUT jack to the phone in jack (record deck) of your audio system.

Video: Connect the VIDEO OUT jack on the DVD player to the video in jack on the TV using the video cable (V).

S-Video: Connect the S-VIDEO OUT jack on the DVD Player to the S-Video in jack on the TV using the S-Video cable (S)

Component Video : Connect the COMPONENT VIDEO OUT / (480p / 720p / 1080i) jacks on the DVD Player to the corresponding in jacks on the TV using an Y Pb Pr cable (C).

- If your television is a high-definition or "digital ready" television, you may take advantage of displaying the highest video resolution possible.
- If your TV does not accept your resolution setting, abnormal picture appears on the screen. Please read TV's owner's manual then set the resolution that your TV can accept.

Resolution setting

You can change the resolution for the COMPONENT VIDEO OUT / (480p / 720p / 1080i) video output by pressing RESOLUTION on the front panel. Available resolution settings are as shown below.

OUTPUT CONNECTION	Available Resolution
HDMI VIDEO OUT	1920 x 1080i 1280 x 720p 720 x 480p 1440 x 480i
COMPONENT VIDEO OUT	1920 x 1080i 1280 x 720p 720 x 480p 720 x 480i
VIDEO OUT	720 x 480i
S-VIDEO	720 x 480i

Notes:

- For 720p and 1080i resolution on the component video out, only non-copy protected discs can be played back. If the disc is copy protected, it will be displayed at the 480p resolution.
- 1080i, 720p and 480p do not work with the analog video connections (VIDEO OUT & S-VIDEO).

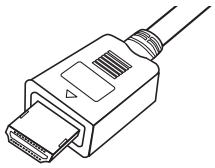
HDMI connection

If you have an HDMI TV or monitor, you can connect it to this player using an HDMI cable.

1. Connect the HDMI OUT jack on the player to the HDMI jack on an HDMI compatible TV or monitor (H).
2. Set the TV's source to HDMI (refer to TV's Owner's manual).
3. Press RESOLUTION repeatedly to select the resolution you wish to change to, then press PLAY.

Notes :

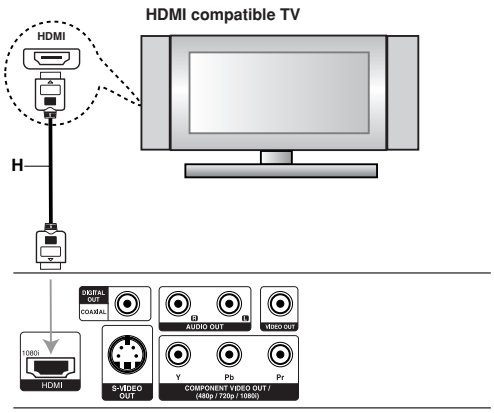
- Both PCM and Bitstream Audio out is available, when the sample frequency is set to 48kHz in HDMI connection.
- If Audio setup is set to bitstream and your TV does not support Bitstream Audio out in HDMI connection, audio sound is converted to PCM.
- If Audio setup is set to bitstream and the sound is distorted, check your TV's audio capability and set the Audio setup to PCM.
- The arrow on the cable connector body should face up for correct alignment with the connector on the player.



- If there is noise or lines on the screen, please check the HDMI cable.
- Not all HDCP-compatible DVI devices will work with this DVD player.
- If TV does not support HDCP, snow noise appears on the screen.

Tip:

When you use HDMI connection, you can change the resolution (480i, 480p, 720p, 1080i) for the HDMI output by pressing the RESOLUTION button on the front panel.



Rear of DVD player

About HDMI

HDMI (High Definition Multimedia Interface) supports both video and audio on a single digital connection for an easy all- digital output to an HDMI or DVI-equipped TV.
Connection to an HDMI TV requires an HDMI cable while connection to a DVI-equipped TV requires an HDMI to DVI adapter.

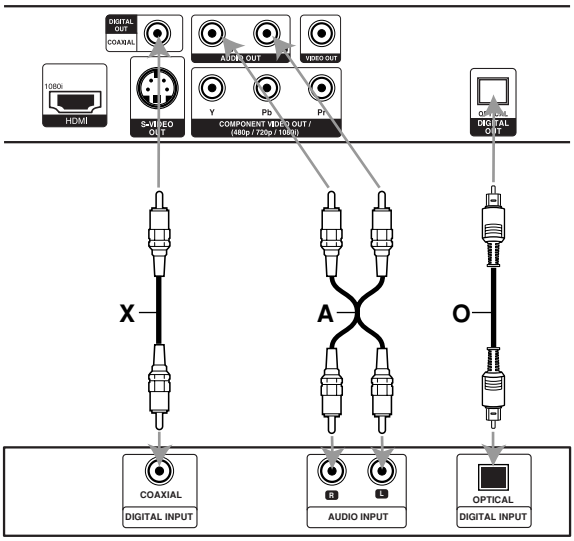
HDMI has the capability to support standard, enhanced, or high-definition video plus standard to multi-channel surround-sound audio. HDMI features include uncompressed digital video, a bandwidth of up to 5 gigabytes per second, one connector (instead of several cables and connectors): communication between the AV source and AV devices such as Digital Televisions.

HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI licensing LLC.

Audio Connection to Optional Equipment

Connect the DVD player to your optional equipment for audio output.

Rear of DVD player



Amplifier (Receiver)

Amplifier equipped with 2-channel analog stereo or Dolby Pro Logic II / **Pro Logic**: Connect the left and right AUDIO OUT jacks on the DVD Player to the audio left and right IN jacks on your Amplifier, Receiver, or Stereo System, using the audio cables (A).

Amplifier equipped with 2-channel digital stereo (PCM) or Audio / **Video Receiver equipped with a multi-channel decoder (Dolby Digital™, MPEG 2, or DTS)**: Connect one of the DVD Player's DIGITAL AUDIO OUT jacks (OPTICAL O or COAXIAL X) to the corresponding in jack on your Amplifier. Use an optional digital (optical O or coaxial X) audio cable.

Digital Multi-channel sound
A digital multi-channel connection provides the best sound quality. For this you need a multi-channel Audio / Video Receiver that supports one or more of the audio formats supported by your DVD Player such as MPEG 2, Dolby Digital and DTS. Check the Receiver manual and the logos on the front of the Receiver.

Notes:

- If the audio format of the digital output does not match the capabilities of your Receiver, the Receiver produces a strong, distorted sound or no sound at all.
- Six Channel Digital Surround Sound via a digital connection can only be obtained if your Receiver is equipped with a Digital Multi-channel decoder.
- To see the audio format of the current DVD in the on-screen display, press AUDIO button.

On-Screen Display

You can display the general playback status on the TV screen. Some items can be changed using the menu. To use the on-screen display:

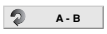
1. Press DISPLAY during playback.
2. Press ▲ / ▼ to select an item.
   The selected item is highlighted.
3. Press ◄ / ► to change the setting. You can also use the number buttons if appropriate (e.g. inputting the title number). For some functions, press ENTER to execute the setting.

Notes:

- Some discs may not provide all of the features shown below.
- If no button is pressed for 10 seconds, the on-screen display disappears.

Playback Status/Restrictions

Repeat title



Repeat sequence

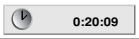
Enter a Marker

Marker Search menu

Resume play from this point

⃠ Action prohibited or not available

Example: On-Screen Display during playing DVD Video

Items		Selection Method
Title Number		◄ / ►, Numbers ENTER
Chapter Number		◄ / ►, Numbers ENTER
Time search		Numbers, ENTER
Audio language and Digital Audio Output mode		◄ / ► or AUDIO
Subtitle language		◄ / ► or SUBTITLE
Angle		◄ / ► or ANGLE
Sound		◄ / ►

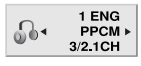
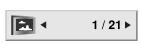
Example: On-Screen Display during playing VCD

Items		Selection Method
Track Number (or PBC mode)		◄ / ►, Numbers ENTER
Time search		Numbers ENTER
Audio Channel		◄ / ► or AUDIO
Sound		◄ / ►

Example: On-Screen Display during playing divx movie disc

Items		Selection Method
Track Number		◄ / ►, Numbers ENTER
Time search		Numbers, ENTER
Audio language and Digital Audio Output mode		◄ / ► or AUDIO
Subtitle language		◄ / ► or SUBTITLE
Sound		◄ / ►

Example: On-Screen Display during playing DVD Audio

Items		Selection Method
Group Number		◄ / ►, Numbers ENTER
Track Number		◄ / ►, Numbers ENTER
Time search		Display only
DVD Audio Output mode		◄ / ► or AUDIO
Subtitle language		Display only
Page (or Angle)	 or	◄ / ► or ANGLE

Initial Settings

By using the Setup menu, you can make various adjustments to items such as picture and sound. You can also set a language for the subtitles and the Setup menu, among other things. For details on each Setup menu item, see pages 14 to 17.

To display and exit the Menu:
Press SETUP to display the menu. A second press of SETUP will take you back to initial screen.

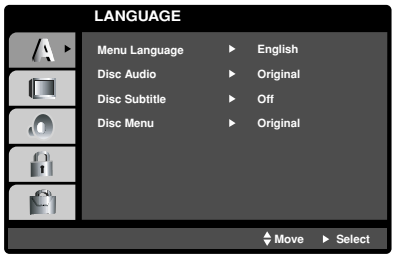
To go to the next level:
Press ► on the Remote Control.

To go back to the previous level:
Press ◄ on the Remote Control.

General Operation

1. Press SETUP. The Setup menu appears.
2. Use ▲ / ▼ to select the desired option then press ► to move to the second level. The screen shows the current setting for the selected item, as well as alternate setting(s).
3. Use ▲ / ▼ to select the second desired option then press ► to move to the third level.
4. Use ▲ / ▼ to select the desired setting then press ENTER to confirm your selection. Some items require additional steps.
5. Press SETUP or PLAY to exit the Setup menu.

LANGUAGE



Menu Language

Select a language for the Setup menu and on-screen display.

Disc Audio / Subtitle / Menu DVD-V DVD-A

Select the language you prefer for the audio track (disc audio), subtitles, and the disc menu.

Original: Refers to the original language in which the disc was recorded.

Other: To select another language, press number buttons then ENTER to enter the corresponding 4-digit number according to the language code list in the reference chapter. If you enter the wrong language code, press CLEAR.

DISPLAY

TV Aspect DVD-V DVD-A

4:3: Select when a standard 4:3 TV is connected.

16:9: Select when a 16:9 TV is connected.

Display Mode DVD-V DVD-A

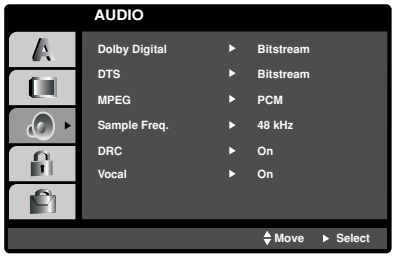
Display Mode setting works only when the TV Aspect mode is set to “4:3”.

Letterbox: Displays a wide picture with bands on the upper and lower portions of the screen.

Panscan: Automatically displays the wide picture on the entire screen and cuts off the portions that do not fit.

AUDIO

Each DVD disc has a variety of audio output options. Set the player’s AUDIO options according to the type of audio system you use.



Dolby Digital / DTS / MPEG DVD-V DVD-A DivX

Bitstream: Select “Bitstream” if you connect the DVD Player’s DIGITAL OUT jack to an Amplifier or other equipment with a Dolby Digital, DTS or MPEG decoder.

PCM: Select when connected to a two-channel digital stereo amplifier. DVDs encoded in Dolby Digital or MPEG will be automatically downmixed to two-channel PCM audio.

Off (for DTS): If you select “Off”, the DTS signal is not output through the DIGITAL OUT jack.

Sample Freq. (Frequency) DVD-V DVD-A

If your Receiver or Amplifier is NOT capable of handling 96 kHz signals, select 48 kHz. When this choice is made, this unit automatically converts any 96 kHz signals to 48 kHz so your system can decode them.

If your Receiver or Amplifier is capable of handling 96 kHz signals, select 96 kHz. When this choice is made, this unit passes each type of signal through without any further processing.

Check the documentation for your Amplifier to verify its capabilities.

Dynamic Range Control (DRC) DVD-V DVD-A DivX

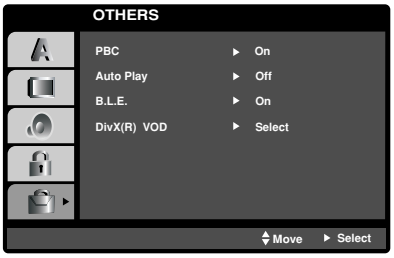
With the DVD format, you can hear a program’s soundtrack in the most accurate and realistic presentation possible, thanks to digital audio technology. However, you may wish to compress the dynamic range of the audio output (the difference between the loudest sounds and the quietest ones). This allows you to listen to a movie at a lower volume without losing clarity of sound. Set DRC to On for this effect.

Vocal DVD-V

Set to On only when a multi-channel karaoke DVD is playing. The karaoke channels on the disc mix into normal stereo sound.

OTHERS

The PBC, Auto Play, B.L.E. and DivX(R) VOD settings can be changed.



PBC VCD

Set Playback Control (PBC) to On or Off.

On: Video CDs with PBC are played according to the PBC.

Off: Video CDs with PBC are played the same way as Audio CDs.

Auto Play DVD-V

You can set up the DVD Player so a DVD disc automatically starts playing whenever the DVD is inserted.
If Auto Play mode is set to On, this DVD player will search for title that has the longest playback time and then play back the title automatically.

On: Auto Play function is active.

Off: Auto Play function is not active.

Note:

The Auto Play function may not work for some DVDs.

B.L.E. (Black Level Expansion)

To select the black level of playback pictures. Set your preference and monitor's ability.

On: Expanded grey scale. (0 IRE cut off)

Off: Standard grey scale. (7.5 IRE cut off)

DivX(R) VOD DivX

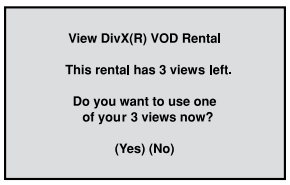
You can display the DivX DRM (Digital Rights Management) Registration code for your unit.

The Registration code is used for VOD (Video-On-Demand) service agent. You can purchase or rent an encrypt movie file.

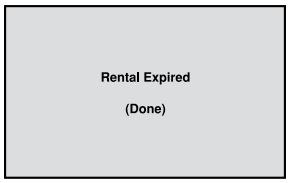
Notes:

If you rent the DivX VOD file, it has several options of viewing limits as shown below.

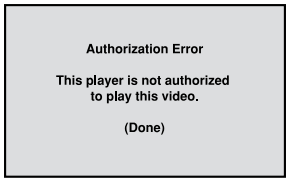
- Display the number which you can watch the file.



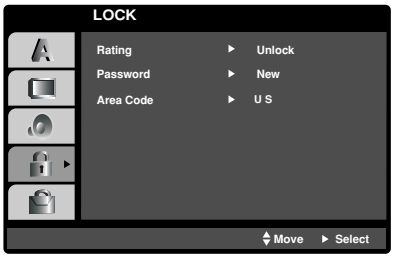
- The rental has been expired.



- Display the authorization error.



LOCK (Parental Control)



Rating DVD-V

Some movies contain scenes that may not be suitable for children to view. Many of these discs contain parental control information that applies to the complete disc or to certain scenes on the disc. Movies and scenes are rated from 1 to 8, depending on the country. Some discs offer more suitable scenes as an alternative.

The parental control feature allows you to block access to scenes below the rating you input, thereby preventing your children from being able to view material you believe is unsuitable.

1. Select “Rating” on the LOCK menu then press ►.
2. To access the Rating, Password and Area Code features, you must input the 4-digit security code you created. If you have not yet entered a security code you are prompted to do so.

   Input a 4-digit code and press ENTER. Enter it again and press ENTER to verify. If you make a mistake before pressing ENTER, press CLEAR.
3. Select a rating from 1 to 8 using the ▲ / ▼ buttons.

   Rating 1-8: Rating one (1) has the most restrictions and rating eight (8) is the least restrictive.

   Unlock
   If you select unlock, parental control is not active and the disc plays in full.

Note:
If you set a rating for the player, all disc scenes with the same rating or lower are played. Higher rated scenes are not played unless an alternate scene is available on the disc. The alternative must have the same rating or a lower one. If no suitable alternative is found, playback stops. You must enter the 4-digit password or change the rating level in order to play the disc.

4. Press ENTER to confirm your rating selection, then press SETUP to exit the menu.

Password (Security Code)

You can enter or change password.

1. Select Password on the LOCK menu then press ►.
2. Follow step 2 as shown left (Rating). “Change” or “New” is highlighted.
3. Enter the new 4-digit code, then press ENTER. Input it again to verify.
4. Press SETUP to exit the menu.

If you forget your Security Code

If you forget your security code you can clear it using the following steps:

1. Remove any disc from the unit.
2. Press SETUP to display the Setup menu.
3. Input the 6-digit number “210499” and the security code is cleared.
4. Enter a new code as described above.

Area Code DVD-V

Enter the code of the area whose standards were used to rate the DVD video disc, based on the list in the reference chapter.

1. Select “Area Code” on the LOCK menu then press ►.
2. Follow step 2 as shown left (Rating).
3. Select the first character using ▲ / ▼ buttons.
4. Press ENTER and select the second character using ▲ / ▼ buttons.
5. Press ENTER to confirm your area code selection.

Operation

Playing a DVD or Video CD

Playback Setup

1. Turn on the TV and select the video input source connected to the DVD Player.
2. Turn on the Audio System (if applicable) and select the input source connected to the DVD player.
3. Insert your chosen disc to the disc slot with the playback side down. Playback starts automatically. If playback does not start, press PLAY.

   In some cases, the disc menu might appear instead:

   DVD-V

   Use the ◄ ► ▲ ▼ buttons to select the title/chapter you want to view, then press ENTER to start. Press TITLE or DVD MENU to return to the menu screen.

   DVD-A

   Use the ◄ ► ▲ ▼ buttons to select an option you want, then press ENTER to view the option.

   VCD

   Use the number buttons to select the track you want to view and press RETURN to return to the menu screen. Menu settings and operating procedures may differ. Follow the instructions on the each menu screen. You also may set PBC to Off (See "PBC" on page 16).

Notes:

- If parental control is set and the disc is not within the rating settings you must input the password. (See "Lock Menu" on page 17.)
- DVDs may have a region code. Your player does not play discs that have a region code different from your player. The region code for this player is 1 (one).

General Features

Note:
Unless stated otherwise, all operations described use the Remote Control. Some features may also be available on the Setup menu.

Moving to another TITLE/GROUP
DVD-V DVD-A

When a disc has more than one title/group, you can move to another title/group. Press DISPLAY while playback is stopped then the appropriate number (0-9) or use ◄ / ► to move to another title/group.
You can play any title by inputting its number while playback is stopped.

Moving to another CHAPTER/TRACK
DVD-V DVD-A VCD DivX

When a title on a disc has more than one chapter or a disc has more than one track, you can move to another chapter/track as follows:

- Press SKIP I◄◄ or ►►I briefly during playback to select the next chapter/track or to return to the beginning of the current chapter/track.
- Press SKIP I◄◄ twice briefly to step back to the previous chapter/track.
- To go directly to any chapter during DVD playback, press DISPLAY and press ▲ / ▼ to select the chapter/track icon. Then, input the chapter/track number or use ◄ / ►.

Search DVD-V DVD-A VCD DivX

1. Press SCAN (◄◄ or ►►) during playback.
2. Press SCAN (◄◄ or ►►) repeatedly to select the required speed.
   DVD, DivX disc; X2, X4, X16 or X100
   Video CD; X2, X4 or X8
3. To exit SEARCH mode, press PLAY.

Note:
When using a DVD audio disc that includes pictures, this operation may be permitted in some picture segments.

Changing the Audio Channel VCD

Press AUDIO repeatedly during playback to hear a different audio channel (Stereo, Left, or Right).

Still Picture and Frame-by-Frame Playback
DVD-V DVD-A VCD DivX

1. Press PAUSE/STEP on the remote control during playback. Advance the picture frame-by-frame by pressing PAUSE/STEP repeatedly.
2. To exit still motion mode, press PLAY.

Note:
When using a DVD audio disc that includes pictures, this operation may be permitted in some picture segments.

Slow Motion DVD-V DVD-A VCD DivX

1. Press PAUSE/STEP (❚❚) during playback.

   The DVD player will now go into PAUSE mode.
2. Use the SCAN (◀◀ or ▶▶) to select the required speed: ◀❚ 1/16, ◀❚ 1/8, ◀❚ 1/4, or ◀❚ 1/2 (backward), or ❚▶ 1/16, ❚▶ 1/8, ❚▶ 1/4, or ❚▶ 1/2 (forward).

   With a DivX Disc or Video CD, the Slow speed changes: ❚▶ 1/16, ❚▶ 1/8, ❚▶ 1/4 or ❚▶ 1/2 (forward).
3. To exit Slow Motion mode, press PLAY (►).

Notes:
- Slow motion playback in reverse is not possible with Video CDs and DivX Discs.
- When using a DVD audio disc that includes pictures, this operation may be permitted in some picture segments.

Random VCD Karaoke DVD

1. Press RANDOM during playback. The unit automatically begins random playback and RANDOM appears on the TV screen.
2. Press RANDOM again to normal.

Tip:
By pressing SKIP ▶▶❚ during random playback, the unit selects another title (track) and resumes random playback.

Note:
On a Video CD with PBC, You must set PBC to Off on the setup menu to use the random function
(See “PBC” on page 16).

Repeat A-B DVD-V DVD-A VCD DivX

To repeat a sequence.

1. Press A-B at your chosen starting point. “ A * ” appears briefly on the TV screen.
2. Press A-B again at your chosen end point. “A B” appears briefly on the TV screen and the repeat sequence begins.
3. Press A-B again to cancel.

Repeat DVD-V DVD-A VCD DivX

You can play a title/chapter/all/track/group on a disc. Press REPEAT during playback to select a desired repeat mode.

DVD Video Discs - Repeat Chapter/Title/Off
- Chapter: repeats the current chapter.
- Title: repeats the current title.
- Off : does not play repeatedly.

Video CDs, DivX discs - Repeat Track/All/Off
- Track : repeats the current track
- All : repeats all the tracks on a disc.
- Off : does not play repeatedly.

DVD Audio Discs - Repeat Track/Group/Off
- Track: repeats the current track.
- Group: repeats the current Group.
- Off : does not play repeatedly.

Notes:
- On a Video CD with PBC, you must set PBC to Off on the setup menu to use the repeat function (See “PBC” on page 16).
- If you press SKIP (▶▶❚) once during Repeat Chapter (Track) playback, the repeat playback cancels.

3D Surround DVD-V VCD DivX

To produce a 3D surround effect that simulates multi-channel audio from two stereo speakers (instead of the five+ speakers normally required for multi-channel audio from a home theater system).

1. Press DISPLAY during playback.
2. Use ▲ or ▼ to select the sound option. The sound option will be highlighted.
3. Use ◀ or ▶ to to select “3D SUR”. To turn off the 3D Surround effect, select “Normal”.

Time Search DVD-V VCD DivX

To start playing at any chosen time on the disc:

1. Press DISPLAY during playback. The time search box shows the elapsed playing time.
2. Press ▲ / ▼ to select the time clock icon and “-:--:--” appears.
3. Input the required start time in hours, minutes, and seconds from left to right. If you enter the wrong numbers, press CLEAR to remove the numbers you entered. Then input the correct numbers.
4. Press ENTER to confirm. Playback starts from the selected time.

Zoom DVD-V DVD-A VCD DivX

Use zoom to enlarge the video image.

1. Press ZOOM during playback or still playback to activate the Zoom function. The square frame appears briefly in the right bottom of the picture.
2. Each press of the ZOOM button changes the TV screen in the sequence: 100% size → 400% size → 1600% size → screen fit mode → 100% size

   Screen fit mode:
   You can change the way the image appears on the screen when you're playing a DVD movie. Press ▲/▼ to select between Normal, Enhanced, and Maximum.
3. Use the ◄ ► ▲ ▼ buttons to move through the zoomed picture.
4. To resume normal playback, press CLEAR.

Notes:

- Zoom may not work on some DVDs.
- Screen fit mode is available for playing the DVD disc and movie file.

Marker Search DVD-V VCD DivX

To enter a Marker

You can start playback from up to nine memorized points. To enter a marker, press MARKER at the desired point on the disc. The Marker icon appears on the TV screen briefly. Repeat to enter up to nine markers.

To Recall or Clear a Marked Scene

1. During disc playback, press SEARCH. The marker search menu appears on the screen.
2. Within 10 seconds, press ◄ / ► to select a marker number that you want to recall or clear.
3. Press ENTER and playback starts from the marked scene. Or, Press CLEAR and the marker number is erased from the list.
4. You can play any marker by inputting its number on the marker search menu.

Pause DVD-V DVD-A VCD DivX

1. Press PAUSE/STEP during playback.
2. To return to playback, press PLAY.

Special DVD Features

Checking the contents of DVD discs: Menus
DVDs may offer menus that allow you to access special features. To use the disc menu, press DVD MENU. Input the corresponding number or use the ◄ ► ▲ ▼ buttons to highlight your selection. Then press ENTER.

Title Menu DVD-V DVD-A

1. Press TITLE. If the current title has a menu, the menu appears on the screen. Otherwise, the disc menu may appear.
2. The menu offers features such as camera angles, spoken language and subtitle options, and chapters for the title.
3. Press TITLE to exit.

Disc Menu DVD-V DVD-A

Press DVD MENU and the disc menu is displayed. Press DVD MENU again to exit.

Camera Angle DVD-V DVD-A

If the disc contains scenes recorded at different camera angles, you can change to a different camera angle during playback. Press ANGLE repeatedly during playback to select a desired angle. Note that the number of the current angle appears on the display.

Tip:

The angle indicator will blink on the TV screen during scenes recorded at different angles as an indication that angle switching is possible.

Changing the Audio Language DVD-V DVD-A DivX

Press AUDIO repeatedly during playback to hear a different audio language or audio track.

Subtitles DVD-V DivX

Press SUBTITLE repeatedly during playback to see the different subtitle languages.

Note:

If there is no information or there is a code that can not read in the DivX file, " 1 " etc are displayed.

DVD Audio Discs

DVD Audio is a new disc format building on the success of DVD to provide high quality, uncompressed, multi-channel audio for a new experience in audio quality. A DVD Audio disc can be identified by the DVD audio logo on the disc jacket or on the disc itself.

DVD Audio can provide higher quality stereo than Audio CDs with a sampling rate of up to 192kHz (compared to 44.1kHz for CDs). DVD Audio digital sound can be delivered with up to 24 bits of data (compared to 16 bits for a standard CD).

A typical DVD Audio disc contains up to seven times the data capacity of a CD. This additional space is used for music, either Advanced Resolution multi-channel sound quality that is closer to the artist's master recording or for longer recordings. Many DVD Audio discs contain on-screen text, such as artist biographies, playlists, or lyrics. Some DVD Audio discs contain photo galleries or video clips.

Moving to another GROUP

Some DVD Audio discs divide content into different groups. Your player enables you to quickly access different groups during playback via the on-screen display.

1. Press DISPLAY during playback on in stop mode.
2. Press ▲/▼ to select Group icon.
3. Press ◀/▶ or the numbered buttons (0-9) to select a group number.

Note:
Sometimes the author of the disc creates hidden content that can only be accessed by entering a password. If the lock icon appears on the TV screen, enter the password (sometimes you'll find it on the disc's jacket cover or on a web site). This password control isn't dictated by your DVD Player — it is a function of the disc.

Since the authoring of DVD Audio Discs varies, some of the on-screen display choices might not be available for the disc you're playing.

Viewing another PAGE

Since DVD Audio discs can hold a lot of content, there are various ways to see what's available on the disc.

1. Press DISPLAY during playback.
2. Press ▲/▼ to select Page icon.
3. Press ◀/▶ to select a page number.

   What appears on the screen will vary from disc to disc because the information available depends upon the way the disc was created.

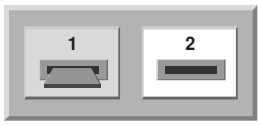
Note:
Since the authoring of DVD Audio Discs varies, some of the on-screen display choices might not be available for the disc you're playing.

Playing an Memory Card M/C

You can play Photo, Music, and MOVIE files in Memory Cards with this DVD player.

1. Insert a Memory Card until it fits into place.

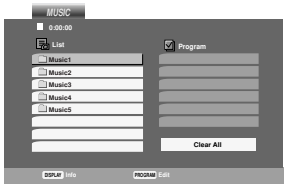
2. Press MEMORY CARD on the front panel.
   The Memory Card slot choice menu appears on the TV screen.



Note:

If both slots are connected with Memory Card, use ◄ / ► to select the desired Memory Card slot.

3. Press ENTER.
   The menu appears.



MUSIC Menu

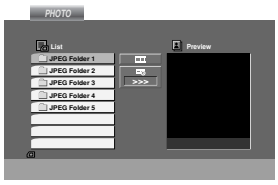
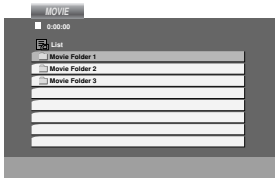


PHOTO Menu



MOVIE Menu

4. Press MEMORY CARD or RETURN to exit the menu.

For details on each operation item, refer to relevant page.

Cards capable of displaying

Readable Cards

- Compact Flash Card (CFC)
- Micro Drive (MD)
- Secure Digital Card (SD)
- Multi Media Card (MMC)
- Memory Stick (MS)
- Memory Stick Pro (MS-Pro)
- eXtreme Digital picture Card (xD)

- Compatible with: FAT 12, FAT 16, or FAT 32
- Only use the memory cards recommended.

Regarding Write Protect

For cards that have a write protect switch, if the switch is on it will not be possible to write or erase the contents of the card.

Notes:

- Keep the memory card out of reach of children. If swallowed, seek medical advice immediately.
- This player can not format a memory card.
- If you insert two memory cards simultaneously into the MS, MMC, SD, MS-Pro and xD memory cards compatible slot, files in the memory cards cannot be played.
- The reading time depends on file size or resolution.
- If a folder in your memory cards have more than 645 files, the whole files are not available to read.

⚠Caution

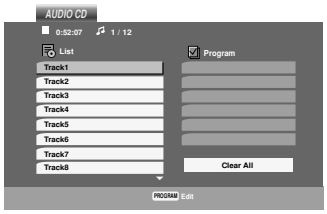
Before you extract your memory cards, you should press the MEMORY CARD button to display the DVD menu screen. Otherwise you will lose your data in your memory card or the memory card can be damaged.

Playing an Audio CD or MP3/WMA Disc

The DVD player can play MP3/WMA formatted recordings on CD-ROM, CD-R, or CD-RW discs.

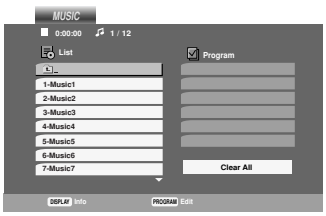
Audio CD

Once you insert an audio CD a menu appears on the TV screen. Press ▲ / ▼ to select a track then press PLAY or ENTER and playback starts.



MP3 / WMA

1. Press ▲ / ▼ to select a folder, and press ENTER to see the folder contents.
2. Press ▲ / ▼ to select a track then press PLAY or ENTER. Playback starts.



ID3 TAG

- When playing a file containing information such as track titles, you can see the information by pressing DISPLAY.
  [Title, Artist, Album, Year, Comment]
- If there is no information, “No ID3 TAG” appear on the display.

Tips:

- If you are in a file list on the MUSIC menu and want to return to the Folder list, use the ▲ / ▼ to highlight .. and press ENTER.
- Press DVD MENU to move to the next page.
- On a CD with MP3/WMA and JPEG you can switch MP3/WMA and JPEG. Press TITLE and MUSIC or PHOTO word on top of the menu is highlighted.

MP3 / WMA disc compatibility with this player is limited as follows:

- Sampling frequency: within 8 - 48 kHz (MP3), within 32 - 48kHz (WMA)
- Bit rate: within 8 - 320kbps (MP3), 32 - 192kbps (WMA)
- The player cannot read an MP3/WMA file that has a file extension other than “.mp3” / “.wma”.
- CD-R physical format should be ISO 9660
- If you record MP3 / WMA files using software that cannot create a file system (eg. Direct-CD) it is impossible to playback MP3 / WMA files. We recommend that you use Easy-CD Creator, which creates an ISO 9660 file system.
- File names should have a maximum of 8 letters and must incorporate an .mp3 or .wma extension.
- They should not contain special letters such as / ? * : “ < > l etc.
- The total number of files on the disc should be less than 650.

This DVD Player requires discs and recordings to meet certain technical standards in order to achieve optimal playback quality. Pre-recorded DVDs are automatically set to these standards. There are many different types of recordable disc formats (including CD-R containing MP3 or WMA files) and these require certain pre-existing conditions (see above) to ensure compatible playback.

Customers should note that permission is required in order to download MP3 / WMA files and music from the Internet. Our company has no right to grant such permission. Permission should always be sought from the copyright owner.

Audio CD and MP3 / WMA Disc Features

Pause CD MP3 WMA M/C

1. Press PAUSE/STEP during playback.
2. To return to playback, press PLAY, ENTER or press PAUSE/STEP again.

Moving to another Track

CD MP3 WMA M/C

1. Press SKIP (I◄◄ or ►►I) briefly during playback to go to the next track or to return to the beginning of the current track.
2. Press SKIP I◄◄ twice briefly to go back to the previous track.
3. You can play any track by inputting its number. (AUDIO CD only)

Repeat Track/All/Off

CD MP3 WMA M/C

You can play a track/all on a disc.

1. Press REPEAT when playing a disc. The repeat icon appears.
2. Press REPEAT to select a desired repeat mode.
   - Track: repeats the current track
   - All: repeats all the tracks on a disc.
   - Off(No display): does not play repeatedly.

Note:

If you press SKIP (►►I) once during Repeat Track playback, the repeat playback cancels.

Search CD MP3 WMA M/C

1. Press SCAN (◄◄ or ►►) during playback.
2. Press SCAN (◄◄ or ►►) repeatedly to select the required speed: X2, X4, X8 backward or forward.
3. To exit SEARCH mode, press PLAY.

Random CD MP3 WMA M/C

1. Press RANDOM during playback. Random Playback begins immediately and RANDOM appears on the menu screen.
2. To return to normal playback, press RANDOM repeatedly until RANDOM disappears from the menu screen.

Tip:

By pressing SKIP ►►I during random playback, the unit selects another track and resumes random playback.

Repeat A-B CD

1. To repeat a sequence during disc playback press A-B at your chosen starting point. The Repeat icon and “A” appear on the menu screen.
2. Press A-B again at your chosen end point. The Repeat icon and “A-B” appear on the menu screen, and the sequence begins to play repeatedly.
3. To exit the sequence and return to normal play, press A-B again. The Repeat icon disappears from the menu screen.

3D Surround CD

To produce a 3D surround effect that simulates multi-channel audio from two stereo speakers (instead of the five+ speakers normally required for multi-channel audio from a home theater system).

1. Press AUDIO during playback. “3D SUR.” appears on the menu screen.
2. To return to normal playback, press AUDIO repeatedly until “3D SUR.” disappears from the menu screen.

Programmed Playback

The program function enables you to store your favorite tracks from any disc in the player memory. A program can contain 30 tracks.

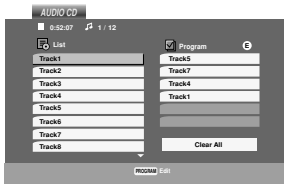
1. Insert a disc.

   Audio CD or MP3/WMA Discs:
   AUDIO CD or MUSIC menu appears.
2. Press PROGRAM.

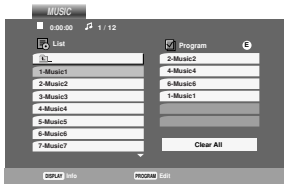
   The Ⓔ mark will appear to the right of the word "Program" on the right side of the menu screen.

Note:

Press PROGRAM again, then the Ⓔ mark will disappear to exit the Program Edit mode.



AUDIO CD Menu

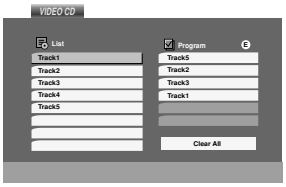


MUSIC Menu

Video CD: Press PROGRAM while playback is stopped. The program menu appears. Press PROGRAM again to exit the menu.

Note:

On a Video CD with PBC, you must set PBC to Off on the setup menu to use the programmed playback (See "PBC" on page 16).



VIDEO CD Menu

3. Select a track on the "List", then press ENTER to place the selected track on the "Program" list. Repeat to place additional tracks on the list.
4. Press ►.
   Select the track you want to start playing on the "Program" list.
5. Press PLAY or ENTER to start. Playback begins in the order in which you programmed the tracks. Playback stops after all of the tracks on the "Program" list have played once.
6. To resume normal playback from programmed playback, select a track of AUDIO CD (or MUSIC) list and then press PLAY.

Repeat Programmed Tracks

1. Press REPEAT when playing a disc. The repeat icon appears.
2. Press REPEAT to select a desired repeat mode.

   • Track: repeats the current track
   • All: repeats all the tracks on programmed list.
   • Off(No display): does not play repeatedly.

Note:

If you press ►►I once during Repeat Track playback, the repeat playback cancels.

Erasing a Track from "Program" List

1. Use ▲ ▼ ► to select the track that you wish to erase from the Program list.
2. Press CLEAR. Repeat to erase additional tracks on the list.

Erasing the Complete Program List

1. Press ► to move to the "Program" list.
2. Use ▲ / ▼ to select "Clear All", then press ENTER.

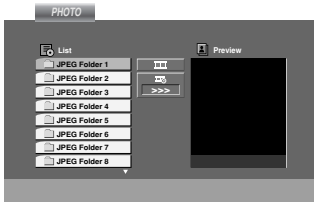
Note:

The programs are also cleared when the disc is removed.

Viewing a JPEG Disc

Using this DVD Player you can view discs with JPEG files.

1. Insert a disc. The PHOTO menu appears on the TV screen.



2. Press ▲ / ▼ to select a folder, and press ENTER. A list of files in the folder appears. If you are in a file list and want to return to the previous Folder list, use the ▲ / ▼ buttons on the remote to highlight and press ENTER.

3. If you want to view a particular file, press ▲ / ▼ to highlight a file and press ENTER or PLAY. Viewing the file proceeding starts.
While viewing a file, you can press STOP to move to the previous menu (PHOTO menu).

Tips:

- Press DVD MENU to move to the next page.
- There are three Slide Speed options : >>> (Fast), >> (Normal) and > (Slow).
Use ▲ ▼ ◄ ► to highlight the Speed. Then, use ◄ / ► to select the option you want to use then press ENTER.
- On a disc with MP3/WMA and JPEG you can switch MP3/WMA and JPEG. Press TITLE and MUSIC or PHOTO word on top of the menu is highlighted.
- Press RETURN, information of file is hidden.

Slide Show JPEG M/C

Use ▲ ▼ ◄ ► to highlight the (Slide Show) then press ENTER.

Still Picture JPEG M/C

1. Press PAUSE/STEP during slide show.
The player will now go into PAUSE mode.
2. To return to the slide show, press PLAY or press PAUSE/STEP again.

Moving to another File JPEG M/C

Press SKIP (I◄◄ or ►►I) or cursor (◄ or ►) once while viewing a picture to advance to the next or previous file.

Zoom JPEG M/C

Use Zoom to enlarge the photo image.
(see page 20)

To rotate picture

Press ▲ / ▼ during showing a picture to rotate the picture clockwise or counter clockwise.

To listen to MP3/WMA music watching picture
JPEG

You can display files while listering to MP3/WMA music files recorded on the same disc.

1. Insert the disc containing the two types of file in the player.
2. Press TITLE to display PHOTO menu.
3. Press ▲ / ▼ to select a photo file.
4. Use ► to select icon then press ENTER. Playback starts. The playback will continue until STOP is pressed.

Tip:

To listen to only the desired music watching picture, programmed the desired tracks from the “MUSIC” menu and then proceed as above.

Note:

The files on a memory card are not available for this function.

JPEG disc compatibility with this player is limited as follows:

- Depending upon the size and number of JPEG files, it could take a long time for the DVD player to read the disc’s contents. If you don’t see an on-screen display after several minutes, some of the files may be too large — reduce the resolution of the JPEG files to less than 2M pixels as 2760 x 2048 pixels and burn another disc.
- The total number of files and folders on the disc should be less than 650.
- Some discs may be incompatible due to a different recording format or the condition of disc.
- Ensure that all the selected files have the “.jpg” extensions when copying into the CD layout.
- If the files have “.jpe” or “.jpeg” extensions, please rename them as “.jpg” file.
- File names without “.jpg” extension will not be able to be read by this DVD Player. Even though the files are shown as JPEG image files in Windows Explorer.

Maintenance and Service

Refer to the information in this chapter before contacting a service technician.

Handling the Unit

When shipping the unit

Please save the original shipping carton and packing materials. If you need to ship the unit, for maximum protection, re-pack the unit as it was originally packed at the factory.

Keeping the exterior surfaces clean

- Do not use volatile liquids such as insecticide spray near the unit.
- Do not leave rubber or plastic products in contact with the unit for a long period of time. since they leave marks on the surface.

Cleaning the unit

To clean the player, use a soft, dry cloth. If the surfaces are extremely dirty, use a soft cloth lightly moistened with a mild detergent solution.

Do not use strong solvents such as alcohol, benzine, or thinner, as these might damage the surface of the unit.

Maintaining the Unit

The DVD player is a high-tech, precision device. If the optical pick-up lens and disc drive parts are dirty or worn, the picture quality could be diminished.

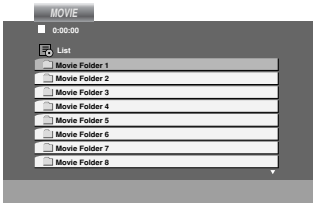
Depending on the operating environment, regular inspection and maintenance are recommended after every 1,000 hours of use.

For details, please contact your nearest authorized service center.

Playing a DivX Movie Disc

Using this DVD Player you can play DivX disc.

1. Insert a disc. The MOVIE menu appears on the TV screen.



2. Press ▲ / ▼ to select a folder, and press ENTER. A list of files in the folder appears. If you are in a file list and want to return to the Folder list, use the ▲ / ▼ buttons on the remote to highlight and press ENTER.
3. If you want to view a particular file, press ▲ / ▼ to highlight a file and press ENTER or PLAY.
4. Press STOP to exit.

Tips:

- Press DVD MENU to move to the next page.
- On a CD with MP3/WMA, JPEG and MOVIE file, you can switch MUSIC, PHOTO and MOVIE menu. Press TITLE and MUSIC, PHOTO and MOVIE word on top of the menu is highlighted.
- The disc subtitle may not be displayed properly, if a DivX subtitle is downloaded through the internet.
- If the Disc Subtitle setup menu does not have the DivX subtitile language you are going to play, the subtitle may not be displayed properly.

Note:

When the bitrate of video signal on a DivX file stored in a memory card is over 2Mbps, it can be displayed like a still image.

DivX disc compatibility with this player is limited as follows:

- Available resolution size of the DivX file is under 720x576 (W x H) pixel.
- The file name of the DivX subtitle is limited to characters.
- If there is impossible code to express in the DivX file, it may be displayed as " _ " mark on the display.
- **If the number of the screen frame is over 30 frames per second, this unit may not operate normally.**
- **If the video and audio structure of recorded file is not interleaved, either video or audio is outputted.**
- **If the file is recorded with GMC, the unit supports only 1-point of the record level.**
  * GMC?
  GMC is the acronym for Global Motion Compensation. It is an encoding tool specified in MPEG4 standard. Some MPEG4 encoders, like DivX or Xvid, have this option. There are different levels of GMC encoding, usually called 1-point, 2-point, or 3-point GMC.

Playable DivX file

● ".avi ", ".mpg ", ".mpeg "

Playable Subtitle format

● SubRip(*.srt/*.txt)
SAMI(*.smi)
SubStation Alpha(*.ssa/*.txt)
MicroDVD(*.sub/*.txt)
SubViewer 2.0(*.sub/*.txt)
TMPlayer(*.txt)
Dvd Subtitle System(*.txt)
VobSub (*.sub) ➜ Sub/idx, stream based format.

Playable Codec format

● "DIVX3.xx ", "DIVX4.xx ", "DIVX5.xx ", "XVID ", "MP43 ", "3IVX ".

Playable Audio format

● "Dolby Digital ", "DTS ", "PCM ", "MP3 ", "WMA ".
- Sampling frequency: within 8 - 48 kHz (MP3), within 32 - 48kHz (WMA)
- Bit rate: within 8 - 320kbps (MP3), 32 - 192kbps (WMA)

Additional Features

Last Scene Memory

DVD-V DVD-A CD VCD1.1

This player memorizes last scene from the last disc that is viewed. The last scene remains in memory even if you remove the disc from the player or switch off the player. If you load a disc that has the scene memorized, the scene is automatically recalled.

Note:

This player does not memorize the scene of a disc if you switch off the player before commencing to play the disc. The last scene memory willl change once a new disc is inserted.

Screen Saver

The screen saver appears when you leave the DVD player in Stop mode for about five minutes. If the Screen Saver is displayed for five minutes, the DVD Player automatically turns itself off.

Video Mode Setting

- With certain discs, the playback picture may be flickering or Dot Crawl is shown on straight lines. That means Vertical interpolation or De-interlace is not perfectly matched with the disc. In this case, the picture quality may be improved by changing the video mode.
- To change the video mode, press and hold DISPLAY about 3 seconds during disc playback. The new video mode number selected is displayed on the TV screen. Check whether the video quality has improved. If not, repeat the above procedure until picture quality is improved.
- Video mode change sequence:
  MODE1 → MODE2 → MODE3 → MODE1
- If you turn off the power, the video mode will revert back to the initial state (MODE1).

Detailed Descriptions for Video Modes

MODE1: The source material of the DVD video (film material or video material) is determined from disc information.

MODE2: Suitable for playing film based content or video based material recorded by the progressive scan method.
MODE3: Suitable for playing video based content with comparatively little motion.

Note:

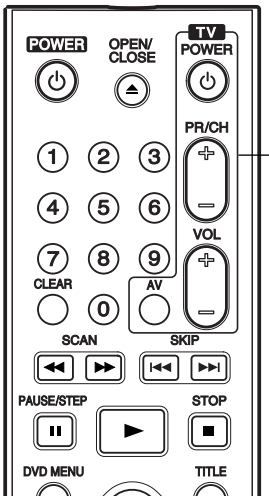
The video mode setting only works in progressive scan mode (720p or 480p).

Reference

Controlling Your TV with the Supplied Remote

You can control the sound level, input source, and power switch of your LG TV with the supplied remote.

You can control your TV using the buttons below.



TV Control Buttons

By pressing	You can
POWER	Turn the TV on or off.
AV	Switch the TV's input source between the TV and other input sources.
PR/CH +/–	Scans up or down through memorized channels.
VOL +/–	Adjust the volume of the TV.

Note:

Depending on the unit being connected, you may not be able to control your TV using some of the buttons.

Controlling other TVs with the remote

You can control the sound level, input source, and power switch of non-LG TVs as well. If your TV is listed in the table below, set the appropriate manufacturer code.

1. **While holding down TV POWER button, press the number buttons to select the manufacturer code for your TV (Refer to table on the right column).**
2. **Release TV POWER button.**

Code numbers of controllable TVs

If more than one code number is listed, try entering them one at a time until you find the one that works with your TV.

Manufacturer	Code Number	Manufacturer	Code Number
ADMIRAL	16,33,37,44,45	MONTGOMERY	01,06,08,09
AIWA	70	WARD	23,24,32,33,34
AKAI	01	NEC	01,08
AMARK	09	NOBLEX	07
AOC	01	PACKARD BELL	43
BELL & HOWELL	33	PANASONIC	07,11,13,25,35,36
BROKSONIC	18,19	PHILCO	01,06,07,08,09,
CANDLE	51		15,38,43,58
CCE	07	PHILIPS	06,07,43,61,62,65
CENTURION	08	PIONEER	30
CINERAL	43	PORTLAND	09
CITIZEN	49,50,51,52,53,54,55	PROSCAN	03,37,44
CORONADO	09	QUASAR	11,13
CROWN	09	RADIO SHACK	16,17,23
CURTIS MATHES	01,03,08,33,35,37,44	RCA	01,03,37,44,69
DAEWOO	16,38,39,40,41,42,43	REALISTIC	16,17,23
DAYTRON	01,08	SAMPO	08
EMERSON	01,09,16,17,18,19	SAMSUNG	01,08,09,25,68
FISHER	28,29	SANYO	28,29
FUNAI	46,47	SCOTT	01,08
GENERAL ELECTRIC	03,10,11,13,37,44	SEARS	09,25,26,27,28,29
GRADIENTE	01,56,57,63,67	SEMP	64
HITACHI	09,14,15,43	SHARP	09,22,23,24,60,66
JC PENNEY	01,08,10,27,35	SIGNATURE 2000	01,06,08,09,10,
JVC	20,21,63,67		23,24,33,34
KIOTE	43	SONY	12,62
KMC	09	SOUNDESIGN	51
KTV	01,08,09,31	SYLVANIA	01,04,05,06,07,
LG (GOLDSTAR)	01,07,08,09,35,39,40		08,35,51
LODGENET	33	SYMPHONIC	46,47
LOGIK	33	TATUNG	11
LXI	09,24,25,26,27,28,29	TEKNIKA	07,09,16,33,51
MAGNAVOX	01,02,04,05,06,	TELERENT	09,33
	07,08,09,20,	THOMSON	69
	34,35,43,51,61,62,65	YORX	08
MAJESTIC	33	TOSHIBA	01,25,26,27,64
MARANTZ	01,32	WARDS	01,06,08,09,10,33,34
MEMOREX	33	XR1000	48
MGA/MITSUBISHI	01,08,32,34	ZENITH	01, 02,33,59

Notes:

- **Depending on your TV, some or all buttons may not function on the TV, even after entering the correct manufacturer code.**
- If you enter a new code number, the code number previously entered will be erased.
- When you replace the batteries of the remote, the code number you have set may be reset to the default setting. Set the appropriate code number again.

Language Codes

Use this list to input your desired language for the following initial settings:
Disc Audio, Disc Subtitle, Disc Menu.

Language	Code	Language	Code	Language	Code	Language	Code
Abkhazian	6566	Fiji	7074	Lingala	7678	Singhalese	8373
Afar	6565	Finnish	7073	Lithuanian	7684	Slovak	8375
Afrikaans	6570	French	7082	Macedonian	7775	Slovenian	8376
Albanian	8381	Frisian	7089	Malagasy	7771	Somali	8379
Ameharic	6577	Galician	7176	Malay	7783	Spanish	6983
Arabic	6582	Georgian	7565	Malayalam	7776	Sudanese	8385
Armenian	7289	German	6869	Maltese	7784	Swahili	8387
Assamese	6583	Greek	6976	Maori	7773	Swedish	8386
Aymara	6588	Greenlandic	7576	Marathi	7782	Tagalog	8476
Azerbaijani	6590	Guarani	7178	Moldavian	7779	Tajik	8471
Bashkir	6665	Gujarati	7185	Mongolian	7778	Tamil	8465
Basque	6985	Hausa	7265	Nauru	7865	Tatar	8484
Bengali; Bangla	6678	Hebrew	7387	Nepali	7869	Telugu	8469
Bhutani	6890	Hindi	7273	Norwegian	7879	Thai	8472
Bihari	6672	Hungarian	7285	Oriya	7982	Tibetan	6679
Breton	6682	Icelandic	7383	Panjabi	8065	Tigrinya	8473
Bulgarian	6671	Indonesian	7378	Pashto, Pushto	8083	Tonga	8479
Burmese	7789	Interlingua	7365	Persian	7065	Turkish	8482
Byelorussian	6669	Irish	7165	Polish	8076	Turkmen	8475
Cambodian	7577	Italian	7384	Portuguese	8084	Twi	8487
Catalan	6765	Japanese	7465	Quechua	8185	Ukrainian	8575
Chinese	9072	Javanese	7487	Rhaeto-Romance	8277	Urdu	8582
Corsican	6779	Kannada	7578	Rumanian	8279	Uzbek	8590
Croatian	7282	Kashmiri	7583	Russian	8285	Vietnamese	8673
Czech	6783	Kazakh	7575	Samoan	8377	Volapük	8679
Danish	6865	Kirghiz	7589	Sanskrit	8365	Welsh	6789
Dutch	7876	Korean	7579	Scots Gaelic	7168	Wolof	8779
English	6978	Kurdish	7585	Serbian	8382	Xhosa	8872
Esperanto	6979	Laothian	7679	Serbo-Croatian	8372	Yiddish	7473
Estonian	6984	Latin	7665	Shona	8378	Yoruba	8979
Faroese	7079	Latvian, Lettish	7686	Sindhi	8368	Zulu	9085

Area Codes

Choose an area code from this list.

Area	Code	Area	Code	Area	Code	Area	Code
Afghanistan	AF	Ethiopia	ET	Malaysia	MY	Saudi Arabia	SA
Argentina	AR	Fiji	FJ	Maldives	MV	Senegal	SN
Australia	AU	Finland	FI	Mexico	MX	Singapore	SG
Austria	AT	France	FR	Monaco	MC	Slovak Republic	SK
Belgium	BE	Germany	DE	Mongolia	MN	Slovenia	SI
Bhutan	BT	Great Britain	GB	Morocco	MA	South Africa	ZA
Bolivia	BO	Greece	GR	Nepal	NP	South Korea	KR
Brazil	BR	Greenland	GL	Netherlands	NL	Spain	ES
Cambodia	KH	Heard and McDonald Islands	HM	Netherlands Antilles	AN	Sri Lanka	LK
Canada	CA	Hong Kong	HK	New Zealand	NZ	Sweden	SE
Chile	CL	Hungary	HU	Nigeria	NG	Switzerland	CH
China	CN	India	IN	Norway	NO	Thailand	TH
Colombia	CO	Indonesia	ID	Oman	OM	Taiwan	TW
Congo	CG	Israel	IL	Pakistan	PK	Turkey	TR
Costa Rica	CR	Italy	IT	Panama	PA	Uganda	UG
Croatia	HR	Jamaica	JM	Paraguay	PY	Ukraine	UA
Czech Republic	CZ	Japan	JP	Philippines	PH	United States	US
Denmark	DK	Kenya	KE	Poland	PL	Uruguay	UY
Ecuador	EC	Kuwait	KW	Portugal	PT	Uzbekistan	UZ
Egypt	EG	Libya	LY	Romania	RO	Vietnam	VN
El Salvador	SV	Luxembourg	LU	Russian Federation	RU	Zimbabwe	ZW

Troubleshooting

Symptom	Possible Cause	Correction
No power.	• The power cord is disconnected.	• Plug the power cord into the wall outlet securely.
The power is on, but the DVD player does not work.	• No disc is inserted.	• Insert a disc. (Check that the DVD or audio CD indicator in the display window is lit.)
No picture.	• The TV is not set to receive DVD signal output.	• Select the appropriate video input mode on the TV.
	• The video cable is not connected securely.	• Connect the video cable securely.
	• Unit output setting and TV resolution capabilities mismatch.	• Check TV capability. • Check mode of connections (eg. S-Video, Component etc.). • Check unit Resolution setting according to TV capability and mode of connection.
No sound.	• The equipment connected with the audio cable is not set to receive DVD signal output.	• Select the correct input mode of the audio receiver so you can listen to the sound from the DVD player.
	• The power of the equipment connected with the audio cable is turned off.	• Turn on the equipment connected with the audio cable.
	• The AUDIO options are set to the wrong position.	• Set the Digital Audio Output to the correct position, then turn on the DVD player again by pressing POWER.
	• The Digital Audio Output mismatch with the amplifier.	• Select the proper audio setting in AUDIO setup.
The DVD player does not start playback.	• An unplayable disc is inserted.	• Insert a playable disc. (Check the disc type, color system, and regional code.)
	• The rating level is set.	• Cancel the rating function or change the rating level.
The Remote Control does not work properly.	• The Remote Control is not pointed at the remote sensor on the DVD player.	• Point the Remote Control at the remote sensor of the DVD player.
	• The Remote Control is too far from the DVD player.	• Operate the Remote Control closer to the DVD player.

Specifications

General

Power requirements: AC 120 V , 60 Hz

Power consumption: 12W

Dimensions (Approx.):
430 x 35 x 242 mm (W x H x D) without feet

Weight (Approx.): 2.2 kg

Operating temperature:
5 °C to 35 °C (41 °F to 95 °F)

Operating humidity: 5 % to 90 %

Outputs

VIDEO OUT:
1.0 V (p-p), 75 Ω, negative sync, RCA jack x 1

S-VIDEO OUT:
(Y) 1.0 V (p-p), 75 Ω, negative sync, Mini DIN 4-pin x 1
(C) 0.3 V (p-p) 75 Ω

COMPONENT VIDEO OUT:
(Y) 1.0 V (p-p), 75 Ω, negative sync, RCA jack x 1
(Pb)/(Pr) 0.7 V (p-p), 75 Ω, RCA jack x 2

AUDIO OUT:
2.0 Vrms (1 KHz, 0 dB), 600 Ω, RCA jack (L, R) x 1

DIGITAL OUT (COAXIAL):
0.5 V (p-p), 75 Ω, RCA jack x 1

DIGITAL OUT (OPTICAL):
3 V (p-p), 75 Ω, Optical onnector x 1

System

Laser:
Semiconductor laser, wavelength 650 nm

Signal system: NTSC

Frequency response:
DVD (PCM 96 kHz): 8 Hz to 44 kHz
DVD (PCM 48 kHz): 8 Hz to 22 kHz
CD: 8 Hz to 20 kHz

Signal-to-noise ratio:
> 100 dB (ANALOG OUT connectors only)

Harmonic distortion: < 0.008% THD

Dynamic range:
> 95 dB (DVD/CD)

Accessories:

Video cable (1), Audio cable (1), Remote Control (1), Batteries (2)

Note: Design and specifications are subject to change without prior notice.

LG Electronics, Inc.
Limited Warranty - USA

This LG Electronics product, will be repaired or replaced, at LG's option, if it proves to be defective in material or workmanship, under normal use, during the warranty period ("Warranty Period") listed below, effective from the date ("Date of Purchase") of original consumer purchase of the product. This warranty is good only to the original purchaser of the product and effective only when used in the United States, excluding U.S. Territories.

WARRANTY PERIOD:	**HOW SERVICE IS HANDLED:**
LABOR: 90 days from the Date of Purchase. **PARTS: One Year** from the Date of Purchase. * Parts replaced are warranted for the remaining portion of the original warranty period.	**Call 1-800-243-0000** for instructions on getting the defective unit repaired or replaced. **Please retain dated sales receipt and your box** to return the unit to LG for repair or replacement. Shipping both ways will be paid by LG during the first 90 days of the Warranty Period. During the remainder of the Warranty Period (91~365 days), you pay inbound shipping charges and LG pays return shipping charges. Visit our website at: http://www.lgservice.com

THIS WARRANTY IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. TO THE EXTENT ANY IMPLIED WARRANTY IS REQUIRED BY LAW, IT IS LIMITED IN DURATION TO THE EXPRESS WARRANTY PERIOD ABOVE. LG ELECTRONICS WILL NOT BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL, INDIRECT, SPECIAL OR PUNITIVE DAMAGES OF ANY NATURE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, INCLUDING WITHOUT LIMITATION, LOST REVENUES OR PROFITS, LOST OR CORRUPTED PROGRAMMING OR DATA, OR ANY OTHER DAMAGE WHETHER BASED IN CONTRACT, TORT OR OTHERWISE. Some states do not allow the exclusion or limitation of incidental or consequential damages or limitation on how long an implied warranty lasts, so the above exclusion or limitation may not apply to you. This warranty gives you specific legal rights and you may also have other rights that may vary from state to state.

THIS LIMITED WARRANTY DOES NOT APPLY TO:

- Damages or operating problems that result from shipping, installation, adjustment of user controls, calibration, maintenance or failure to maintain, or separate system components; and
- Damages or operating problems that result from normal wear and tear, misuse, abuse, operation outside environmental specifications or contrary to the requirements or precautions in the Operating Guide, accident, lightning strikes or other natural causes, unauthorized modification or alteration, incorrect electrical current or voltage, signal reception or input, software not licensed directly by LG, software errors that do not disable functionality, operating and software protocols adopted after the date of manufacture or for outside the US, institutional or commercial use, or other causes not arising out of defect in material or workmanship.

The cost of repair or replacement under these excluded circumstances shall be borne by the consumer.

CUSTOMER INTER-ACTIVE CENTER NUMBERS:

For Warranty Service, Where to buy, Product Assistance, or Customer Assistance	**Call 1-800-243-0000** (24 hours a day, 365 days per year) and select appropriate options from the menu. Or visit our website at **http://www.lgservice.com**

LG ELECTRONICS U.S.A., INC.
1000 SYLVAN AVENUE
ENGLEWOOD CLIFFS, NJ

P/N : 3834RD0068W
Issue O
Printed in China